## Patent claims 1 2 An optical module including 1. 3 a circuit carrier (10), 4 a housed semiconductor element (12) which is 5 arranged on the circuit carrier (10), and 6 a lens unit (14, 16, 18, 20, 21) for projecting 7 electromagnetic radiation onto the semiconductor 8 element (12), 9 wherein the housed semiconductor element (12) and 10 the lens unit (14, 16, 18, 20, 21) are formed in 11 two parts, 12 characterized in that 13 a support (13a) is formed, at least in sections, 14 on the housing (13) of the semiconductor element 15 (12), upon which support (13a) the lens unit (14, 16 16, 18, 20, 21) is arranged and supported. 17 18 The optical module as claimed in claim 1, 19 2. 20 characterized in that the support (13a) is formed such that it is partially 21 tilt-free, in particular in the shape of a ring collar. 22 23 The optical module as claimed in claim 1 or 2, 24 characterized in that 25 the lens unit (14, 16, 18, 20, 21) includes a base lens 26 (16), wherein the support of the lens unit (14, 16, 18, 27 20, 21) takes place via the base lens (16). 28 29 30 4. The optical module as claimed in claim 1 or 2, characterized in that 31 the lens unit (14, 16, 18, 20, 21) includes a lens 32 holder (14), wherein the support of the lens unit (14, 33

1		16, 18, 20, 21) takes place via the lens holder (14).
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3	5.	The optical module as claimed in claim 3 or 4,
4		characterized in that
5		the base lens (16) or the lens holder (14) includes a
6		surface section (16a) which is formed so as to
7		correspond to the support (13a), at least in sections,
8		said surface section (16a) being positioned on the
9		support (13a) which is formed on the housing (13) of
10		the semiconductor element (12).
11		
12	6.	The optical module as claimed in claim 3 to 5,
13		characterized in that
14		the base lens (16) or the lens holder (14) has a collar
15		(16b), at least in sections, which is formed so as to
16		correspond essentially to a locating face (13b) that is
17		formed on the support (13a).
18		
19	7.	The optical module as claimed in one of the preceding
20		claims,
21		characterized in that
22		a locating face (13b) is formed on the support (13a),
23		at least in sections.
24		
25	8.	The optical module as claimed in claim 7,
26		characterized in that
27		the locating face (13b) of the support (13a) is formed
28		in a manner which is tapered, in particular conical,
29		from the semiconductor element (12) in the direction of
30		the optical axis (33) of the module.
31		
32	9.	An optical system including an optical module as
33		claimed in one of the preceding claims.